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“जानने का अधिकार, जीने का अधिकार”

Mazdoor Kisan Shakti Sangathan

“The Right to Information, The Right to Live”

“पुराने को छोड़ नये के तरफ”

Jawaharlal Nehru

“Step Out From the Old to the New”

IS 7864-2 (1979): Upholstery Springs, Part II: Zigzag Type
[TED 21: Spring]

“ज्ञान से एक नये भारत का निर्माण”

Satyanaaranay Gangaram Pitroda

Invent a New India Using Knowledge



“ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है”

Bhartṛhari—Nītiśatakam

“Knowledge is such a treasure which cannot be stolen”



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Indian Standard

SPECIFICATION FOR UPHOLSTERY SPRINGS

PART II ZIGZAG TYPE

1. Scope — Covers the dimensions, construction and other details of zigzag type upholstery springs.

2. Symbols — Following symbols are used in this standard:

d = wire diameter, mm

l_0 = unloaded length of the spring, mm

P = pitch, mm

b = width, mm

3. Dimensions and Tolerances — Shall be as given in Table 1. Other details which are not specified shall be suitably chosen.

3.1 End Formation — Commonly used end formation shall be as shown in Fig. 1.

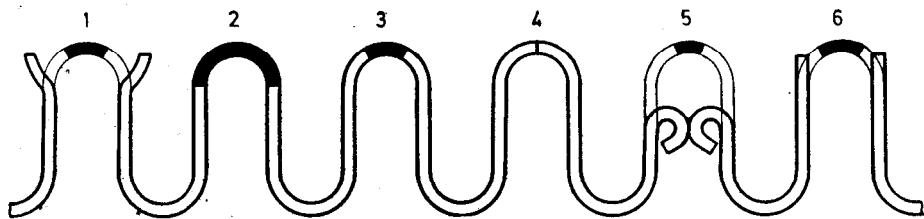


FIG. 1 STANDARD END FORMATION FOR ZIGZAG SPRING

4. Material

4.1 Springs — Hard-drawn steel wire, patented according to IS : 4454 (Part I) - 1975 'Specification for steel wires for cold formed springs: Part I Patented and cold drawn steel wires — unalloyed (first revision)'.

4.2 Lashing — Cold rolled steel strip according to IS : 2507 - 1975 'Specification for cold rolled steel strip for springs (first revision)'.

4.3 Springs may be supplied in cut form to the desired length and curvature depending on application or in continuous rolls of 30 m approximately.

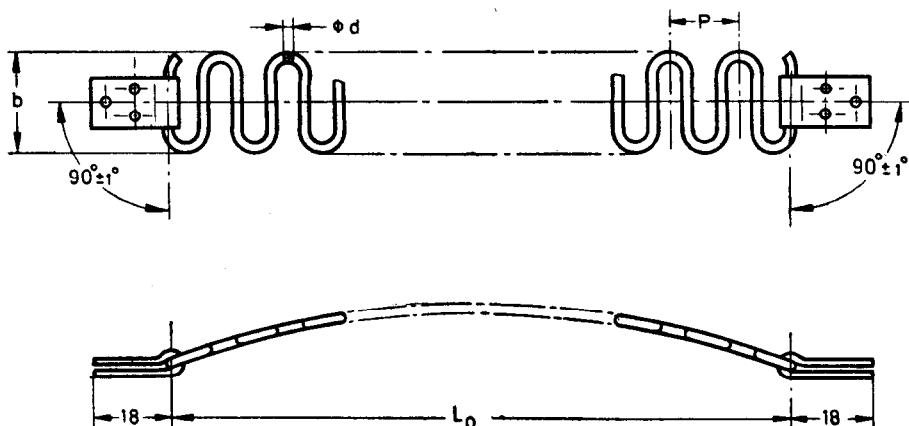
5. Workmanship and Finish — The springs may be galvanized according to IS : 4826 - 1968 'Specification for galvanized coatings on round steel wires', copper plated or coated with black stoving enamel paints. Other coatings may be used subject to agreement between the purchaser and the supplier.

5.1 The copper plating, when the springs are copper plated, shall not be less than 6 g/m² of the surface area.

6. Tests — The dimensions of the curved springs shall be measured only after the spring has been scragged flat three times in succession.

TABLE 1 DIMENSIONS FOR UPHOLSTERY SPRING, ZIGZAG TYPE

(Clause 3)



All dimensions in millimetres.

Form	Pitch P ± 1	Width b ± 2	Wire Diameter d	Unloaded Length L_0	Approximate Radius of Curvature
A1	40	44	2.25	400 - 700	50 - 0
			2.5		
A2	40	48	2.8	300 - 700	100 - 50
			3.1		
B1	60	50	2.5	400 - 700	50 - 0
			2.8		
B2	60	54	3.1	300 - 700	100 - 0
			3.6		
C1	100	70	2.5	400 - 700	50 - 0
			2.8		
C2	100	75	3.1	300 - 700	50 - 0
			3.6		
			4.0		
			3.4	400 - 700	50 - 0
			3.6		
			4.0		

7. Designation — Shall include:

- Commonly used name;
- Form of spring;
- Wire diameter d ;
- Unloaded length, L_0 ;

- e) Number of this standard; and
- f) Surface treatment.

Example:

A zigzag type of upholstery spring of Form A made from wire diameter, $d = 2.5$ mm, having length $L_0 = 400$ mm and galvanized shall be designated as:

Zigzag Upholstery Spring A 2.5 × 400 IS : 7894 Galvanized

8. Marking — The package containing the springs shall be marked with:

- a) Manufacturer's name or trade-mark and type number;
- b) Lot or batch number;
- c) Designation; and
- d) Quantity.

8.1 ISI Certification Marking — Details available with the Indian Standards Institution.

EXPLANATORY NOTE

Upholstery springs have numerous applications. Conical type of upholstery springs are used in various bed units, mattresses, automobile seats and back units and railways seat and back units. Conical type of upholstery springs are covered in IS : 7864 (Part I)-1975 ' Upholstery springs: Part I Conical type '.

Zigzag type upholstery springs have particular applications in automobile and railway seat and furniture.

In the preparation of this standard, assistance has been derived from the following publication:

TGL 6450 (Blatt 2)-1961 Springs for upholstery, flat springs from 255 to 600 mm length.
Amt fur Standardisierung, Messwesen und waren Prufung.